

(12) UK Patent Application (19) GB (11) 2 095 537 A

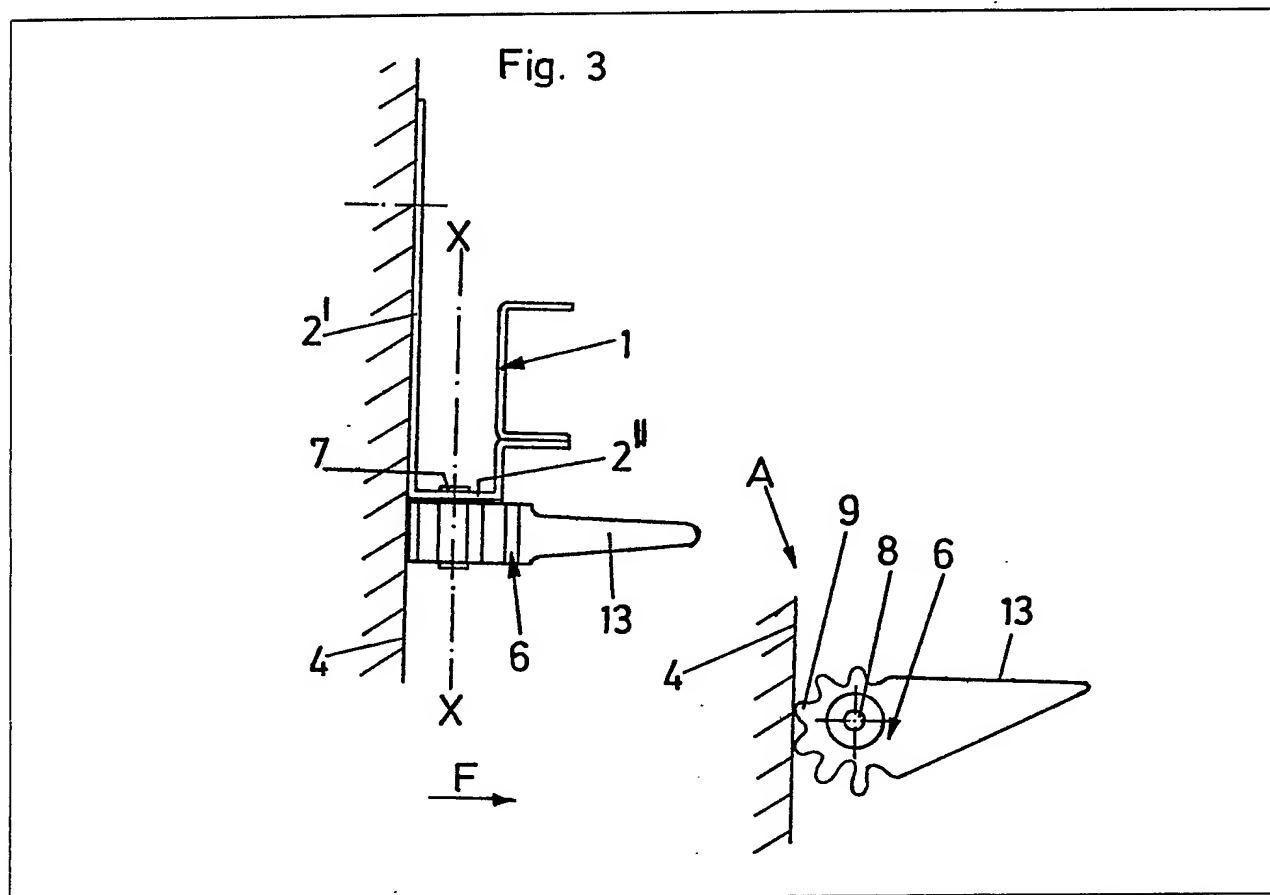
(21) Application No 8201695  
(22) Date of filing  
21 Jan 1982  
(30) Priority data  
(31) 236/81  
4604/81  
(32) 21 Jan 1981  
29 Oct 1981  
(33) Austria (AT)  
Austria (AT)  
(43) Application published  
6 Oct 1982  
(51) INT CL<sup>3</sup> A47B 88/04  
(52) Domestic classification  
A4B 11 15A3 15A5  
(56) Documents cited  
GB A 2037573  
(58) Field of search  
A4B  
(71) Applicant  
Julius Blum Gesellschaft  
mbH  
Industriestrasse 1  
A-6973 Hochst  
Austria  
(72) Inventors

Rudolf Tilker  
Erich Rock  
(74) Agents  
Marks and Clerk  
57-60 Lincoln's Inn  
Fields  
London WC2 3LS

detents, and may bear on operating  
arm 13.

(54) Laterally adjustable drawer  
slide components

(57) The cabinet mounted rail 1 of a  
drawer slide mechanism is movea-  
ble laterally with respect to the  
cabinet wall 4 under resilient flex-  
ure of arm 2' of the mounting  
bracket (which arm 2' is only se-  
cured at its upper end to wall 4),  
the lateral position being selected  
and retained by an eccentric cam 6  
mounted on a vertical axis X-X and  
bearing on wall 4. The periphery of  
the cam 6 bears radially extending  
teeth 9 of resilient material to act as



GB 2 095 537 A

1/2

Fig. 1

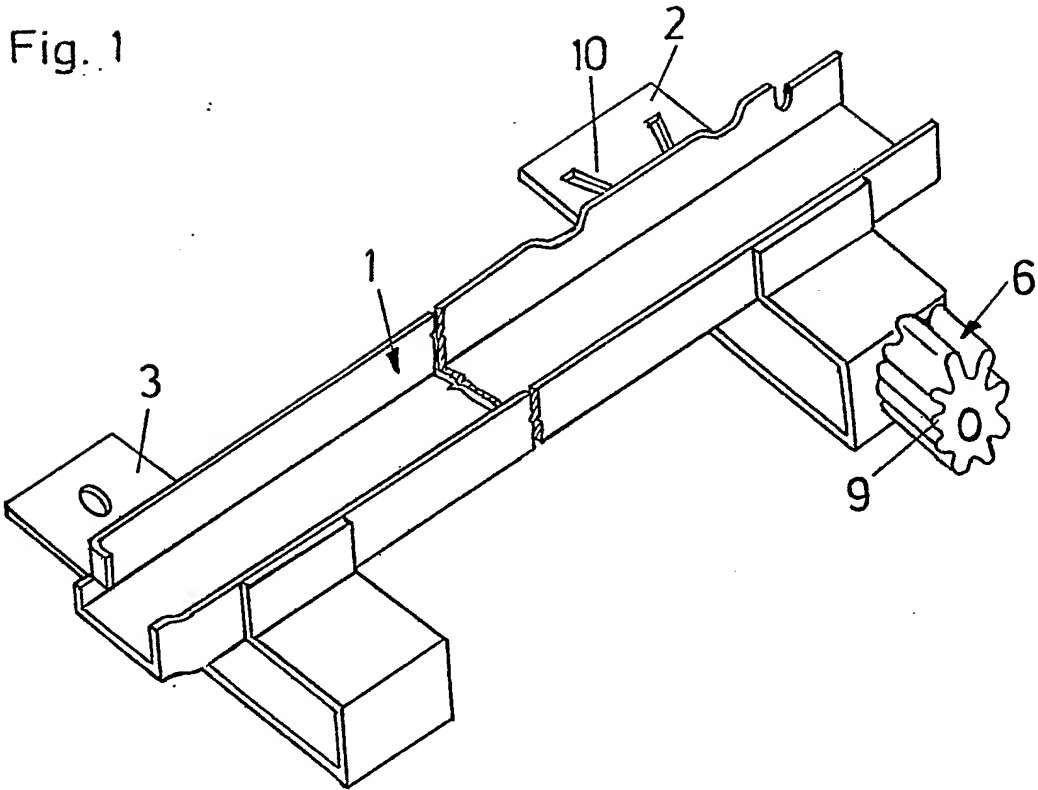
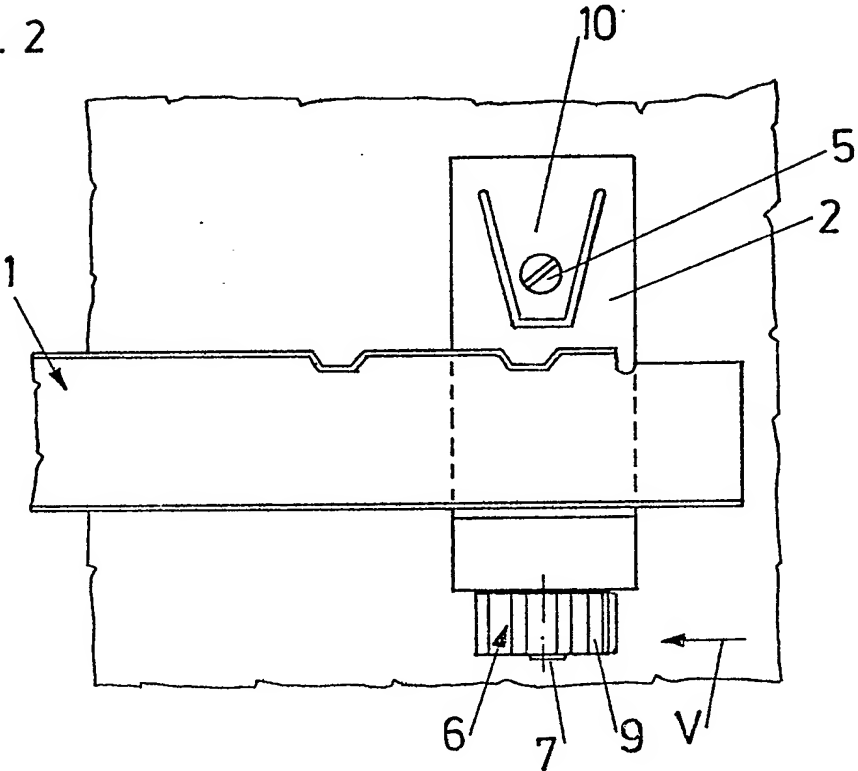


Fig. 2





## SPECIFICATION

**Laterally adjustable pull-out assembly for drawers of the like**

5 The invention relates to a laterally adjustable pull-out assembly for drawers or the like comprising a supporting rail on the side of the body, a guide rail on the side of the drawer  
10 and an eccentric as an adjusting means rotatably mounted around an axis (X-X) vertically extending to the sliding flange.

When mounting drawers in cupboards or closets a possibility of adjusting the supporting  
15 rail on the side of the body or the guide rails on the side of the drawer, of the slide assembly is often desired in order to obtain a precise lateral alignment of the drawers.

A lateral adjustment of the supporting rails  
20 is desired so that the front panels of the inserted drawers are exactly in the desired positions and, further, that quiet motion and an improved fit of the drawer in the pull-out assembly are obtained.

25 It is further desired that the adjustment of the supporting rail can be made without fully extracting the drawer from the body of the piece of furniture, i.e. that the adjusting means are substantially accessible from the  
30 front of the piece of furniture.

With prior art adjustment means, such lateral adjustment of the supporting rail is possible in one direction only, i.e. away from the side wall of the body, because the eccentric  
35 is only able to urge the supporting rail away from the side wall. When the distance between the supporting rail and the side wall is too big, a backward rotation of the eccentric is not sufficient, but the supporting rail has to  
40 be forced to the side wall of the body by exerting lateral pressure.

It is the object of the invention to provide a laterally adjustable supporting rail of the above-described kind in which all operational  
45 advantages are preserved and which is of simple structural design also when the drawer is anchored in the pull-out assembly, which ensures safe operation (i.e. that an unintentional adjustment of the supporting rail is prevented). An advantageous embodiment allows an adjustment in the direction towards the side wall as well as away from the body side wall within the normal operational range of the adjusting means.

55 According to the invention, this is achieved by mounting the eccentric, which is a plastics wheel or a segment of a plastics wheel with flexible teeth, on an elastic fastening member for the supporting rail and by adapting it to  
60 rest against the furniture side wall, when the supporting rail is in the mounted position.

By providing the toothed wheel, the teeth of the eccentric brace themselves on the furniture side wall or a corresponding abutting wall  
65 in such a manner that an unintentional rotation of the eccentric is efficiently prevented.

tion of the eccentric is efficiently prevented.

By arranging the eccentric on a separate fastening member of the supporting rail, the eccentric is more easily accessible. Further, a  
70 sort of elastic support for the supporting rail is obtained by the combined action of the fastening member and the supporting rail, said elastic support effecting that the supporting rail is pressed against the furniture side wall  
75 by the fastening member, when the eccentric is correspondingly rotated. An advantageous embodiment provides that the fastening member has a L-profile with a vertical fastening flange and a horizontal supporting flange for  
80 the supporting rail and that the eccentric is mounted on the supporting flange.

This resilience of the fastening member can be increased still by providing the fastening flange with a punched flap on which a fastening  
85 screw or the like engages.

A further embodiment of the invention provides that an adjustment member is moulded to the eccentric. In this embodiment adjustment can be effected without tools.

90 In the following two embodiments of the invention will be described in greater detail by means of the figures of the attached drawings without being limited thereto.

*Figure 1* shows a schematic view of a  
95 supporting rail according to the invention,

*Figure 2* shows a side view of a supporting rail according to the invention,

*Figure 3* shows a front view of a second embodiment of a supporting rail according to  
100 the invention, and

*Figure 4* shows a schematic view of a pull-out assembly with a supporting rail according to the invention.

The supporting rail 1 according to the invention is fixed to the furniture side wall 4 by means of two fastening members 2, 3, the fastening members 2, 3 being screwed to the body side wall 4 by means of screws 5.

The fastening member 2 is, as can best be  
110 seen in Fig. 3, substantially L-shaped and has a vertical fastening flange 2' and a horizontal supporting flange 2'' for the supporting rail 1.

A plastics wheel or a segment of a plastics wheel is rotatably mounted on the horizontal  
115 supporting flange 2'' on an axle 7, said wheel or said segment being provided with an eccentric hub 8, thus forming an eccentric 6.

The plastics wheel or the plastics segment is further provided with teeth 9 bracing themselves on the body side wall 4, as illustrated in section A of Fig. 3.

The teeth 9 and their slight resilience provide a safety means for the eccentric 6 by efficiently preventing an unintentional rotation thereof. In the embodiment according to Fig. 3 to 6, an adjustment member 13 is moulded to the eccentric 6 for rotating the same. By means of the moulded adjustment member 13, the eccentric can be rotated without any  
130 tool.

In the embodiment according to Fig. 1 and 2, rotation of the eccentric 6 is effected by pressing from the front of the piece of furniture on a tooth 9 of the eccentric 6 by means of a suitable tool, e.g. a screw driver, in the direction of arrow V of Fig. 2, thereby turning the eccentric.

In Fig. 3, the eccentric 6 and the supporting rail 1 are shown in the zero position. By turning the eccentric 6, the supporting rail 1 with the fastening member 2 are moved from the body side wall 4 in the direction of arrow F.

Due to the resilience of the metal fastening member 2, the supporting rail 1 can also be moved in the direction towards the side wall, when the eccentric 6 is correspondingly turned.

In order to improve the resilience of the fastening member 2, it is provided with a flap 10 on which the fastening screw 5 engages directly.

Fig. 4 shows a schematic view of the arrangement of the supporting rail according to the invention, the drawer 11 with the guide rail 12 also being illustrated. The guide rail 12 is mounted in the supporting rail 1 by means of rollers, for example. The axis of rotation and the bearing axle 7 of the eccentric 6 are vertically aligned in the mounted position.

#### CLAIMS

1. A laterally adjustable pull-out assembly for drawers or the like comprising a supporting rail on the side of the body, a guide rail on the side of the drawer and an eccentric as an adjusting means rotatably mounted around an axis (X-X) vertically extending to the sliding flange, characterized in that said eccentric being a plastics wheel or a segment of a plastics wheel with flexible teeth is mounted on an elastic fastening member for said supporting rail and rests against the furniture side wall, when said supporting rail is in the mounted position.

2. A laterally adjustable pull-out assembly as claimed in claim 1, characterized in that said fastening member has an L-profile with a vertical fastening flange and a horizontal supporting flange for said supporting rail, and that said eccentric is mounted on said supporting flange.

3. A laterally adjustable pull-out assembly as claimed in claim 2, characterized in that said fastening member has a punched flap on which a fastening screw or the like engages.

4. A laterally adjustable pull-out assembly as claimed in claim 1, characterized in that an adjustment member is moulded to said eccentric.

5. A laterally adjustable pull-out assembly substantially as hereinbefore described with reference to and as illustrated in the accompanying drawings.

Printed for Her Majesty's Stationery Office  
by Burgess & Son (Abingdon) Ltd.—1982.  
Published at The Patent Office, 25 Southampton Buildings,  
London, WC2A 1AY, from which copies may be obtained.

PUB-NO: GB002095537A  
DOCUMENT-IDENTIFIER: GB 2095537 A  
TITLE: Laterally adjustable drawer slide components  
PUBN-DATE: October 6, 1982

ASSIGNEE-INFORMATION:

NAME	COUNTRY
BLUM GMBH JULIUS	N/A

APPL-NO: GB08201695  
APPL-DATE: January 21, 1982

PRIORITY-DATA: AT00023681A (January 21, 1981) ,  
AT00460481A (October 29, 1981)

INT-CL (IPC): A47B088/04

EUR-CL (EPC): A47B088/04

US-CL-CURRENT: 312/334.5

ABSTRACT:

CHG DATE=19990617 STATUS=O> The cabinet mounted rail 1 of a drawer slide mechanism is moveable laterally with respect to the cabinet wall 4 under resilient flexure of arm 2' of the mounting bracket (which arm 2' is only secured at its upper end to wall 4), the lateral position being selected and

retained by an eccentric cam 6 mounted on a vertical axis X-X and bearing on wall 4. The periphery of the cam 6 bears radially extending teeth 9 of resilient material to act as detents, and may bear on operating arm 13. 